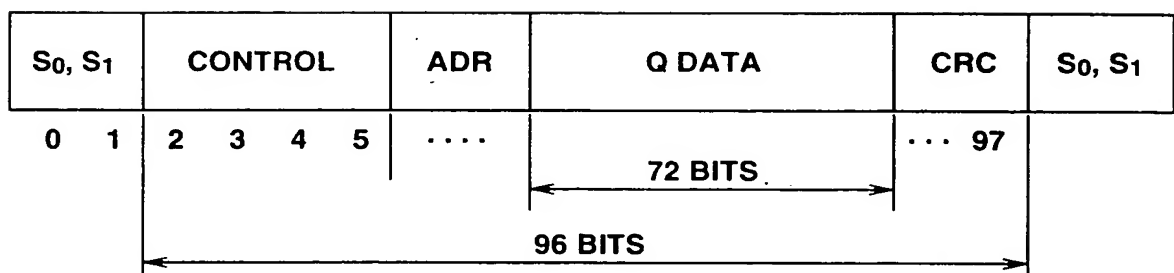


FIG.1

|    |                                    |       |   |   |   |   |   |   |    |
|----|------------------------------------|-------|---|---|---|---|---|---|----|
|    | d1                                 | ----- |   |   |   |   |   |   | d8 |
|    | P                                  | Q     | R | S | T | U | V | W |    |
| 0  | SYNCHRONOUS PATTERN S <sub>0</sub> |       |   |   |   |   |   |   |    |
| 1  |                                    |       |   |   |   |   |   |   |    |
| 2  | SYNCHRONOUS PATTERN S <sub>1</sub> |       |   |   |   |   |   |   |    |
| .  |                                    |       |   |   |   |   |   |   |    |
| .  |                                    |       |   |   |   |   |   |   |    |
| .  |                                    |       |   |   |   |   |   |   |    |
| .  |                                    |       |   |   |   |   |   |   |    |
| .  |                                    |       |   |   |   |   |   |   |    |
| 97 |                                    |       |   |   |   |   |   |   |    |

**FIG.2**



**FIG.3**

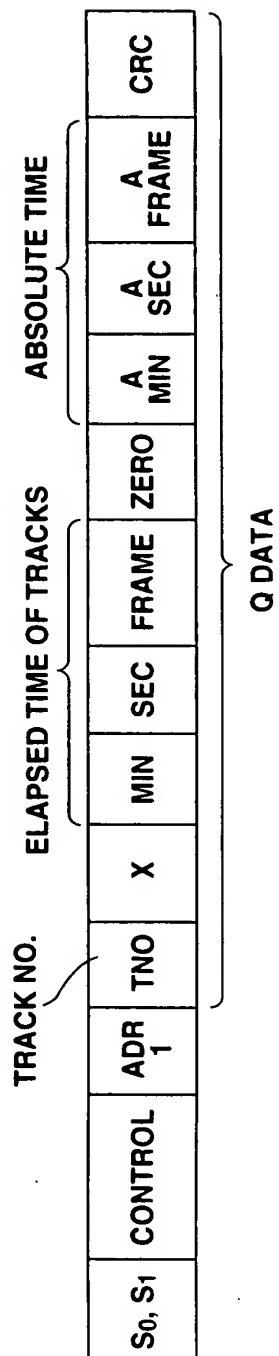


FIG.4

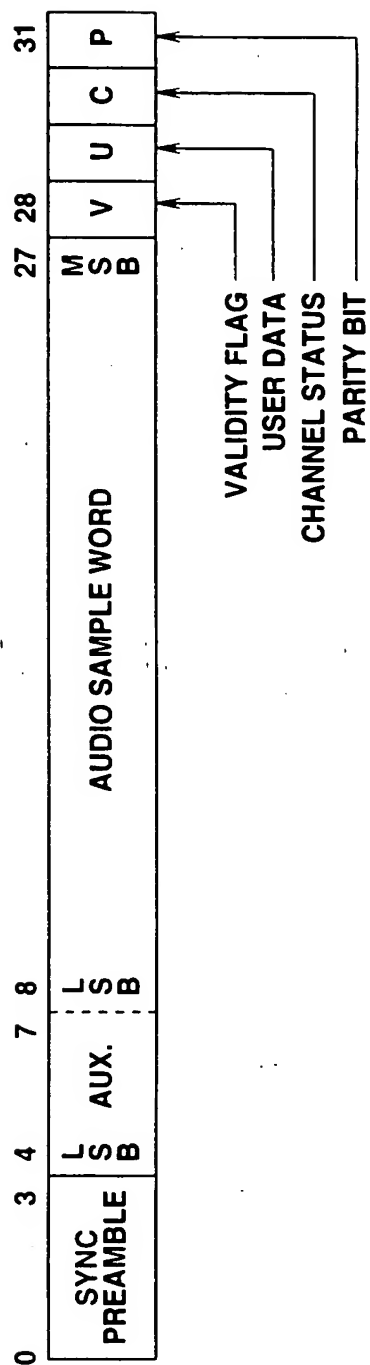
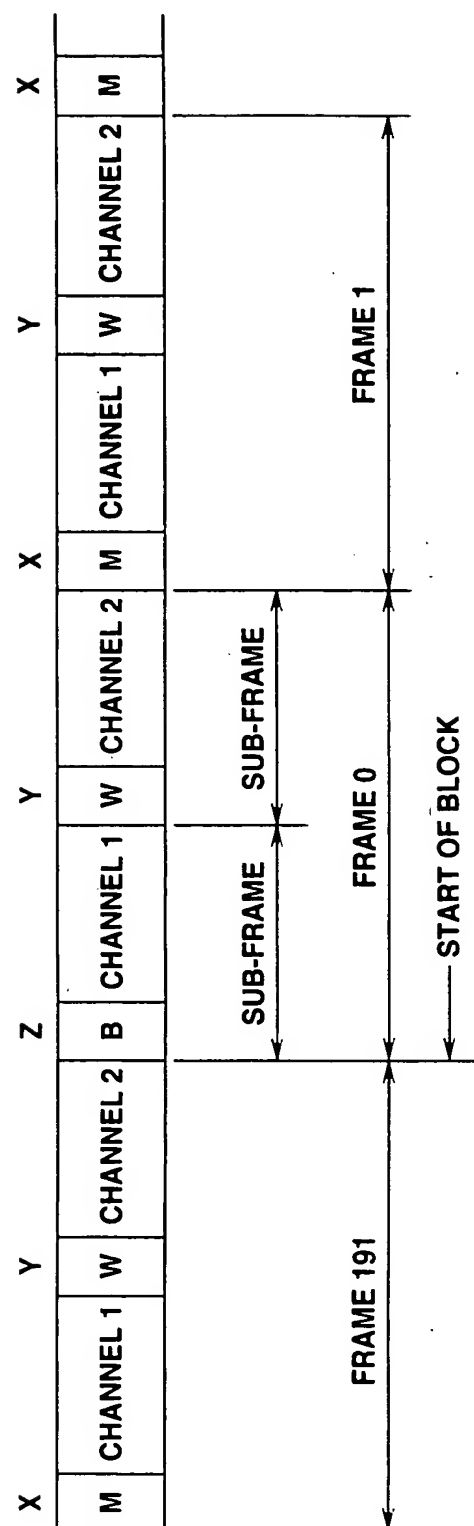
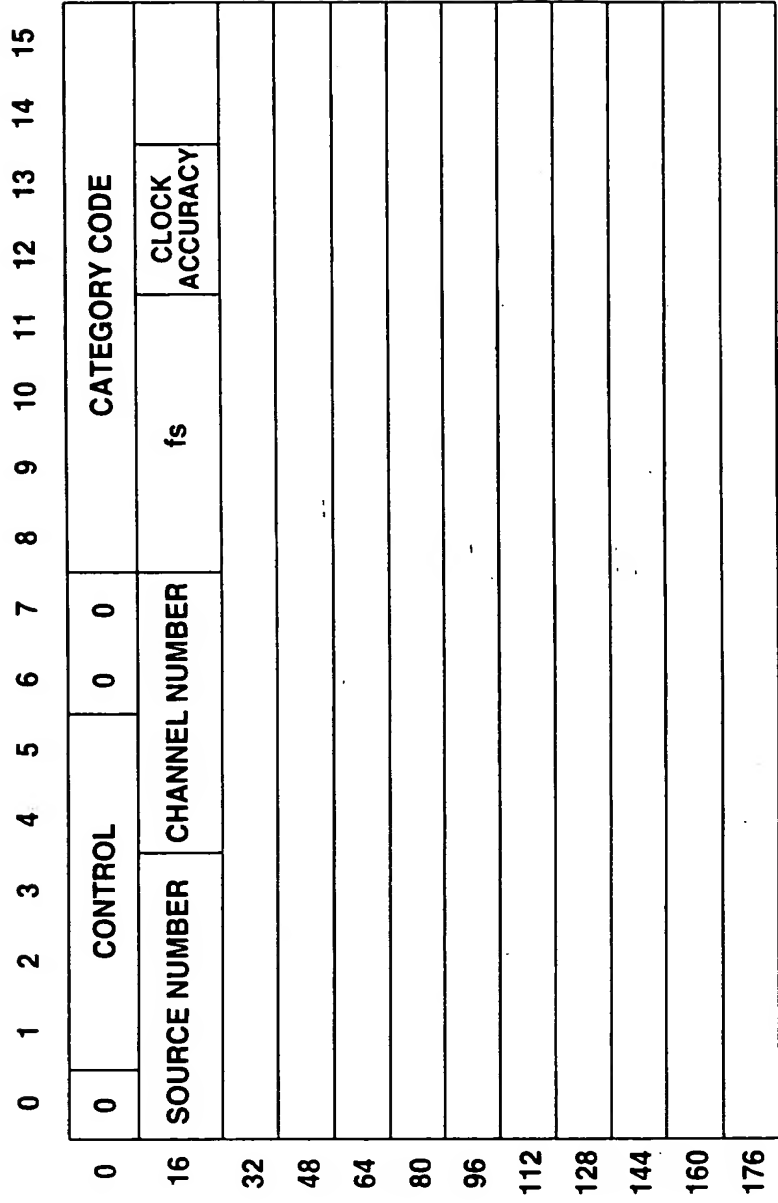


FIG.5



**FIG. 6**



**FIG.7**

|      | 0  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 11 |
|------|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  |
| 12   | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  |
| 24   | 1  | Q1  | R1  | S1  | T1  | U1  | V1  | W1  | 0  | 0  | 0  | 0  |
| 36   | 1  | Q2  | R2  | S2  | T2  | U2  | V2  | W2  | 0  | 0  | 0  | 0  |
|      | .  | .   | .   | .   | .   | .   | .   | .   | .  | .  | .  | .  |
| 1164 | 1  | Q96 | R96 | S96 | T96 | U96 | V96 | W96 | 0  | 0  | 0  | 0  |
| 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  |
| 12   | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  |
| 24   | 1  | Q1  | R1  | S1  | T1  | U1  | V1  | W1  | 1  | Q2 | R2 | S2 |
| 36   | T2 | U2  | V2  | W2  | 0   | 0   | 0   | 0   | 0  | 0  | 0  | 0  |
| 48   | 1  | Q3  | R3  | S3  | T3  | U3  | V3  | W3  | 0  | 0  | 0  | 0  |
| 60   | 0  | 0   | 0   | 0   | 1   | Q4  | R4  | S4  | T4 | U4 | V4 | W4 |
| 72   | 1  | Q5  | R5  | S5  | T5  | U5  | V5  | W5  | 0  | 0  | 0  | 0  |
|      | .  | .   | .   | .   | .   | .   | .   | .   | .  | .  | .  | .  |

FIG.8

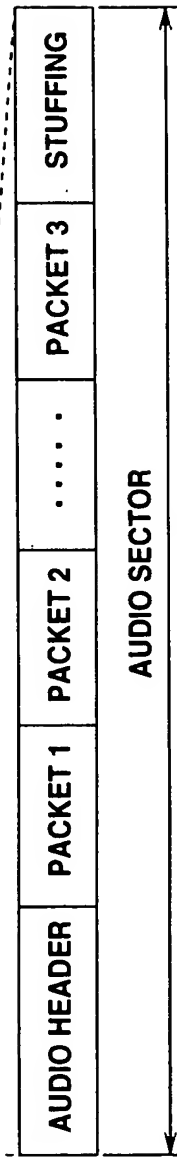
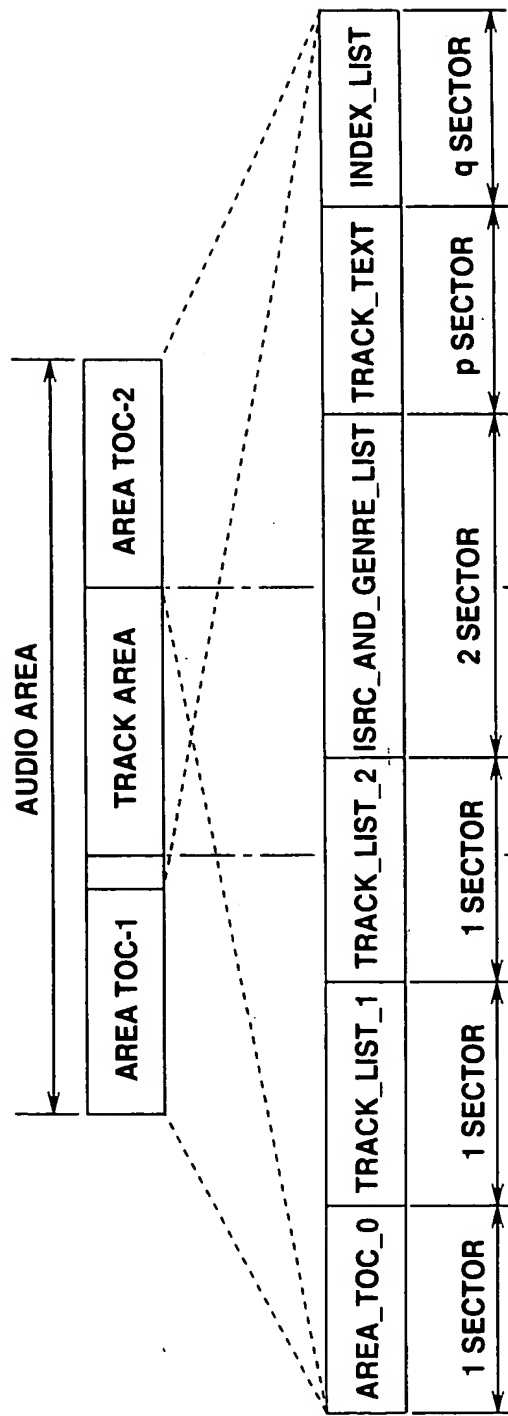
| No. | PREAMBLE<br>SYNC | AUX  | AUDIO SAMPLES |      |      |      | M<br>S<br>B | V | U | C    | P |
|-----|------------------|------|---------------|------|------|------|-------------|---|---|------|---|
| 1   | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C1L  | P |
| 2   | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C1R  | P |
| 3   | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C2L  | P |
| 4   | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C2R  | P |
| 5   | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C3L  | P |
| 6   | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C3R  | P |
| 7   | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C4L  | P |
| 8   | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C4R  | P |
| 9   | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C5L  | P |
| 10  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C5R  | P |
| 11  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C6L  | P |
| 12  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C6R  | P |
| 13  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C7L  | P |
| 14  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C7R  | P |
| 15  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C8L  | P |
| 16  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C8R  | P |
| 17  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C9L  | P |
| 18  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C9R  | P |
| 19  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C10L | P |
| 20  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C10R | P |
| 21  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C11L | P |
| 22  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C11R | P |
| 23  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C12L | P |
| 24  | B                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0 | C12R | P |

**FIG.9**

| No. | PREAMBLE<br>SYNC | AUX  | AUDIO SAMPLES |      |      |      | M<br>S<br>B | V | U  | C    | P |
|-----|------------------|------|---------------|------|------|------|-------------|---|----|------|---|
| 25  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 1  | C13L | P |
| 26  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | Q1 | C13R | P |
| 27  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | R1 | C14L | P |
| 28  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | S1 | C14R | P |
| 29  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | T1 | C15L | P |
| 30  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | U1 | C15R | P |
| 31  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | V1 | C16L | P |
| 32  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | W1 | C16R | P |
| 33  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C17L | P |
| 34  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C17R | P |
| 35  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C18L | P |
| 36  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C18R | P |
| 37  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 1  | C19L | P |
| 38  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | Q2 | C19R | P |
| 39  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | R2 | C20L | P |
| 40  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | S2 | C20R | P |
| 41  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | T2 | C21L | P |
| 42  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | U2 | C21R | P |
| 43  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | V2 | C22L | P |
| 44  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | W2 | C22R | P |
| 45  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C23L | P |
| 46  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C23R | P |
| 47  | M                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C24L | P |
| 48  | W                | 0000 | 0000          | XXXX | XXXX | XXXX | XXXX        | 0 | 0  | C24R | P |

**FIG.10**





|                                 | #bytes     | format      | value      |
|---------------------------------|------------|-------------|------------|
| Track_List_2 ( ) {              |            |             |            |
| Track_List_2 Signature          | 8          | string      | "SACDTRL2" |
| for (ton=1;ton<=N_Tracks;ton++) |            |             |            |
| {                               | 3          | Time_Code   |            |
| Track_Start_Time_Code [ton]     | 1          | UInt8       | 0          |
| reserved                        |            |             |            |
| }                               | Until 1028 | UInt8       | 0          |
| Reserved                        |            |             |            |
| for (ton=1;ton<=N_Tracks;ton++) |            |             |            |
| {                               | 3          | Time_Code   |            |
| Track_Time_Length [ton]         | 1          | Track_Flags |            |
| Track_Flags [ton]               | Until 2048 | UInt8       | 0          |
| }                               |            |             |            |
| Reserved                        |            |             |            |
| }                               |            |             |            |

FIG.12

|   | #bytes    | format    | value      |
|---|-----------|-----------|------------|
| Index_List ( ) {<br>Index_List_Signature<br>for (ton=1;ton<=N_Tracks;ton++)<br>{<br>Index_Ptr [ton]<br>}<br>Reserved<br>for (ton=1;ton<=N_Tracks;ton++)<br>if (Index_Ptr [ton]>0)<br>{<br>N_Stored_Indexes [ton]<br>for (x=1;x<=N_Stored_Indexes [ton];x++)<br>{<br>Index_Start_TC [ton] [x+1]<br>}<br>}<br>Reserved<br>} | 8         | string    | "SACD_Ind" |
|   | 2         | UInt16    |            |
|   | Until 524 | UInt8     | 0          |
|   | 1         | UInt8     | 1..255     |
|   | 3         | Time_Code |            |
|   | Until eos | UInt8     | 0          |

FIG.13

|   |             |       |  |
|---|-------------|-------|--|
| <pre> Audio_Header ( ) {     N_Packs     N_Frame_Starts     Reserved     for (p=1;p&lt;=N_Packets;p++)         Packet_Info ( ) [p]     for (f=1;f&lt;=N_Frame_Starts;f++)         Frame_Info ( ) [f] } </pre> |             |       |  |
| #bytes  | format      | value |  |
| 3   | UInt3       | 1..7  |  |
| 3   | UInt3       | 1..7  |  |
| 2   |             | 0     |  |
| 16  | Packet_Info |       |  |
| 48  | Frame/Info  |       |  |

FIG.14

|                                 | #bytes | format    | value |
|---------------------------------|--------|-----------|-------|
| Frame_Info ( ) [f] {            |        |           |       |
| Time_Code                       | 24     | Time_Code |       |
| if (Frame_Format==0/*==LLC*/) { |        |           |       |
| Reserved                        | 2      | UInt8     | 0     |
| N/Sector [f]                    | 4      | UInt4     | 0     |
| Buffer_Occupancy [f]            | 18     | UInt18    | 0     |
| }                               |        |           |       |
| }                               |        |           |       |

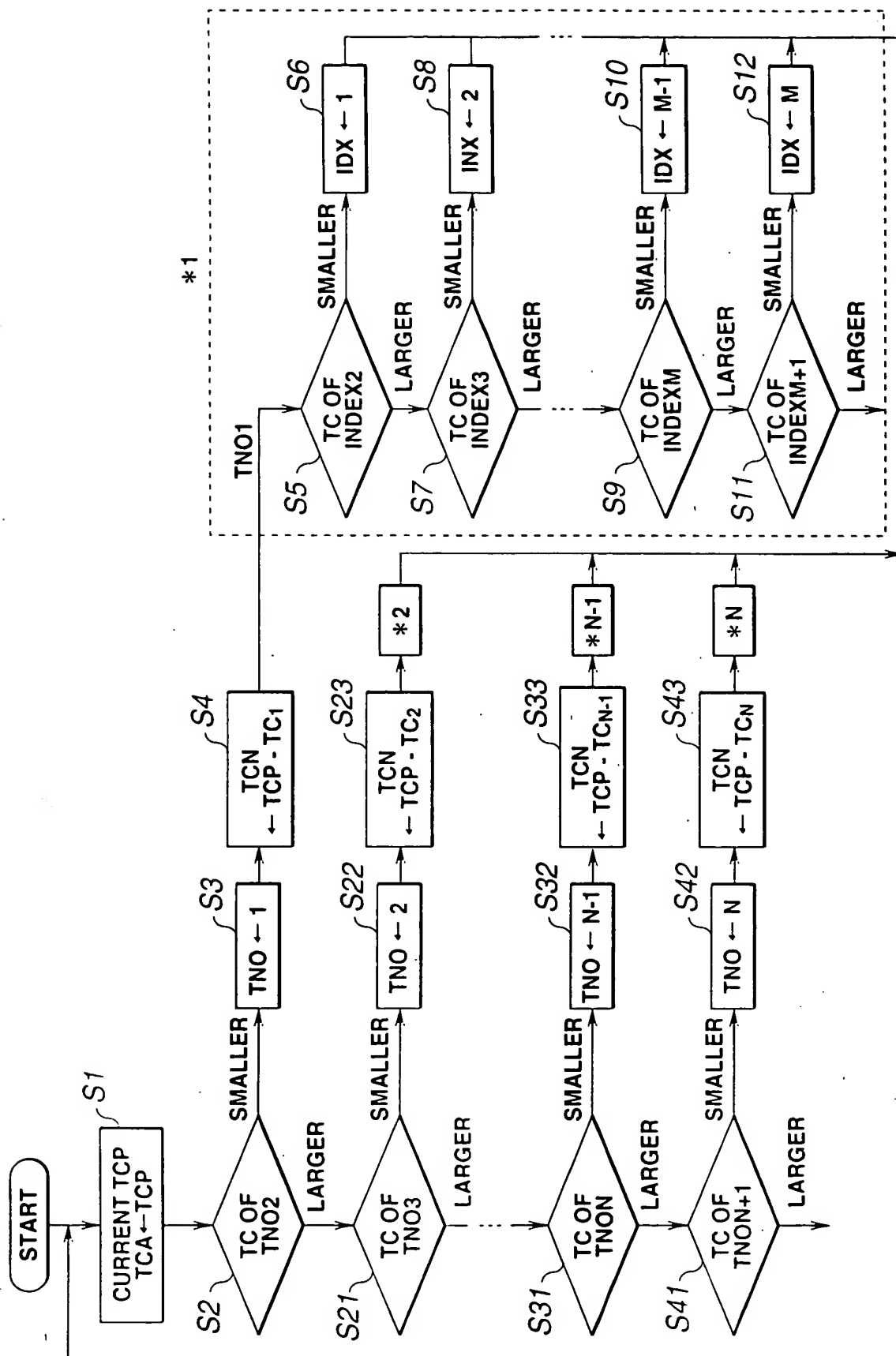
FIG.15

| AREA TOC                 |                                 |                                |            |          |                                |   |
|--------------------------|---------------------------------|--------------------------------|------------|----------|--------------------------------|---|
| TRACK LIST2              |                                 |                                | INDEX LIST |          |                                |   |
| TRACK START<br>TIME CODE | TN01                            | 0M10S00F<br>(TC <sub>1</sub> ) | INDEX 2    | 2M10S00F | INDEX<br>START<br>TIME<br>CODE |   |
|                          |                                 |                                | INDEX 3    | 3M10S00F |                                |   |
|                          |                                 |                                | .          | .        |                                |   |
|                          |                                 |                                | .          | .        |                                |   |
|                          | TN02                            | 5M30S00F<br>(TC <sub>2</sub> ) | INDEX M    | 4M10S00F |                                |   |
|                          |                                 |                                | INDEX 2    | 6M10S00F |                                |   |
|                          |                                 |                                | INDEX 3    | 8M10S00F |                                |   |
|                          |                                 |                                | .          | .        |                                |   |
| TN03                     | 10M20S00F<br>(TC <sub>3</sub> ) | INDEX 2                        | 12M30S00F  |          |                                |   |
|                          |                                 |                                |            |          |                                |   |
|                          |                                 |                                |            |          |                                |   |
| TN0N                     |                                 | (TC <sub>N</sub> )             | .          | .        | .                              | . |

FIG.16

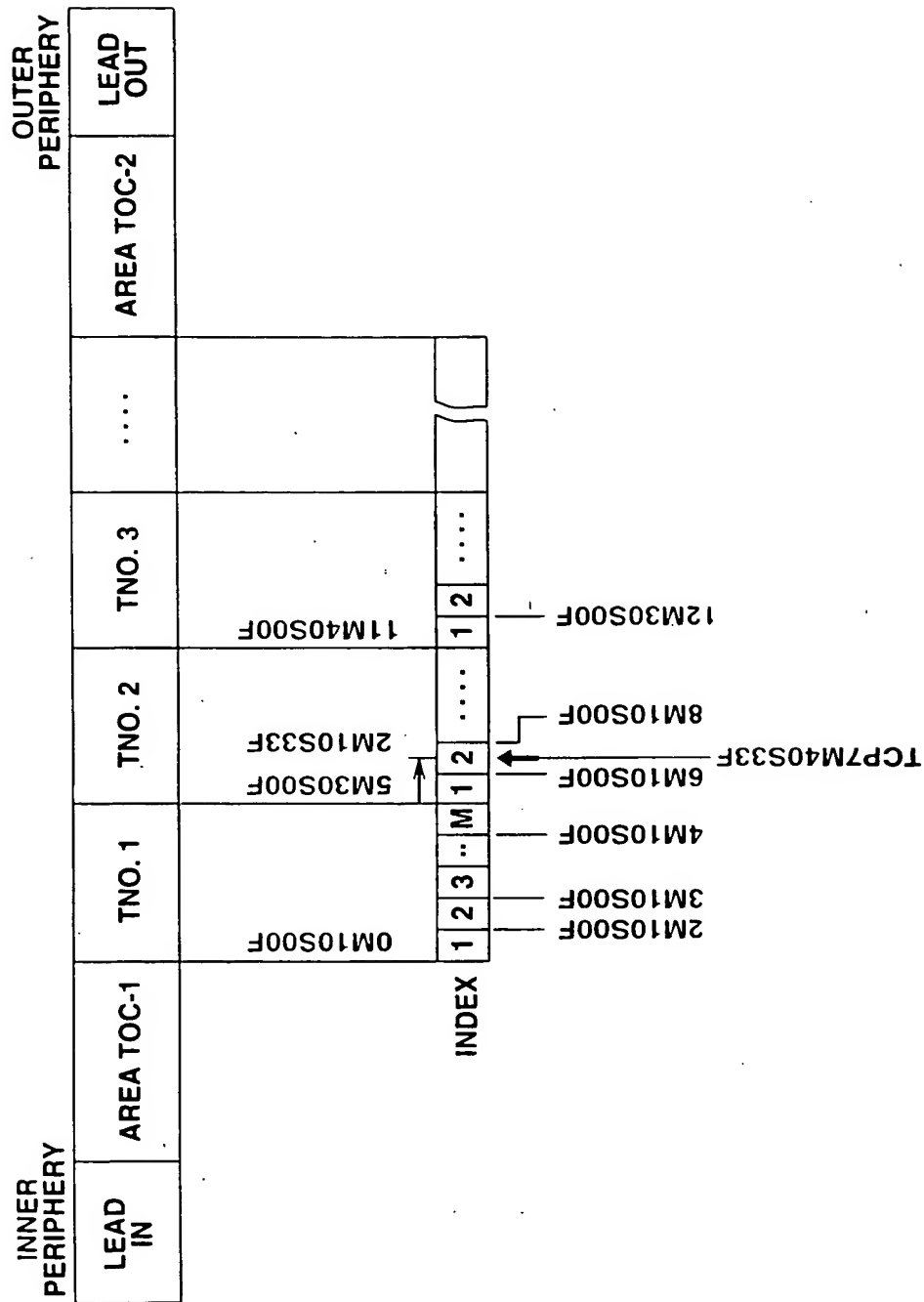
|                  |                  |                                       |          |            |           |                             |          |            |
|------------------|------------------|---------------------------------------|----------|------------|-----------|-----------------------------|----------|------------|
| TNO              | INDEX            | N<br>MIN                              | N<br>SEC | N<br>FRAME | ZERO      | A<br>MIN                    | A<br>SEC | A<br>FRAME |
| TRACK<br>NO. TNO | INDEX<br>NO. IDX | ELAPSED TIME OF TRACK<br>TCN(M, S, F) |          |            | UNIFORM 0 | ABSOLUTE TIME<br>TAC(M,S,F) |          |            |

FIG.17



**FIG. 18**





**FIG.19**

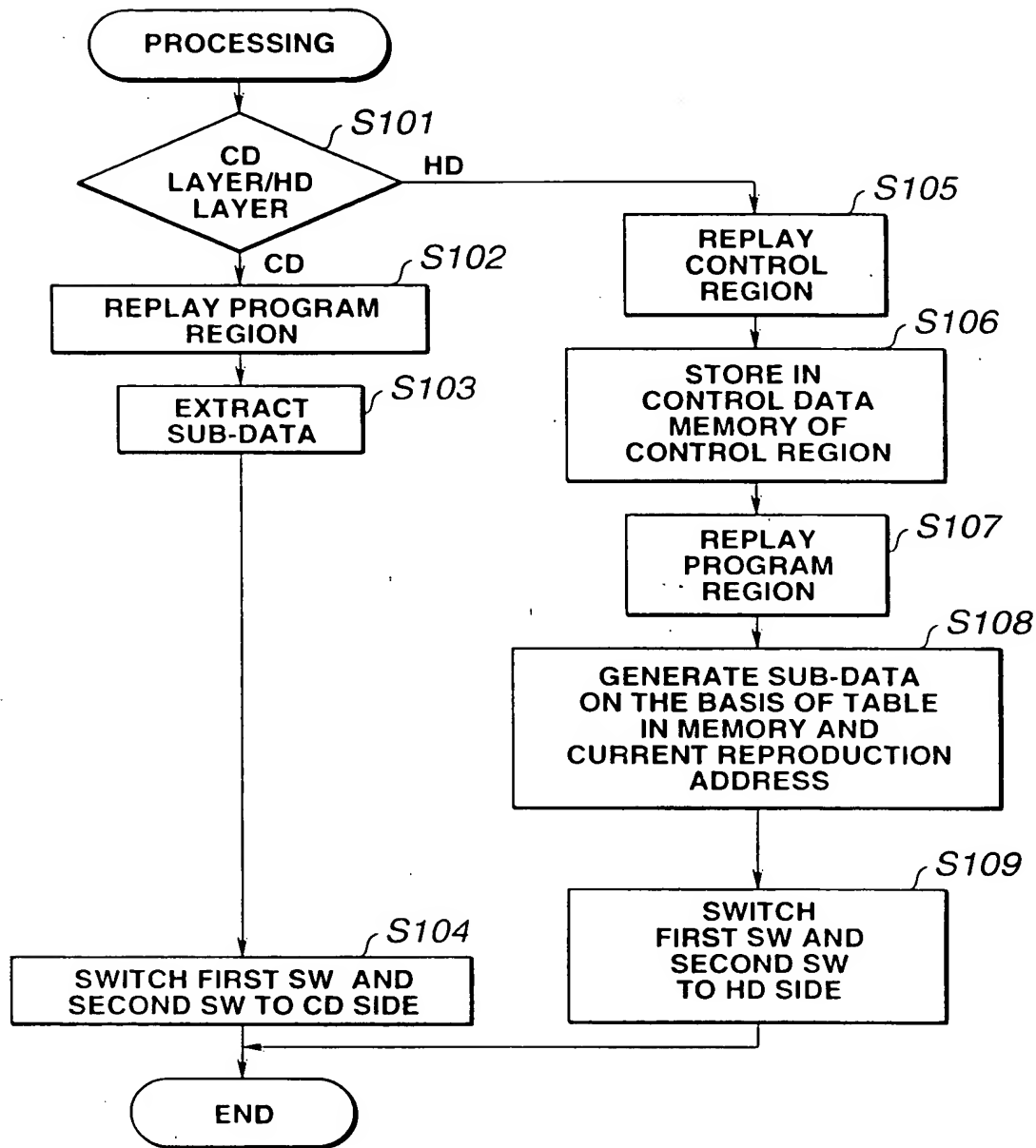


FIG.20